Amendments to the Claims

A listing of the entire set of pending claims (including amendments to the claims) is submitted herewith per 37 C.F.R. § 1.121. This listing of claims will replace all prior versions and listings of claims in the application.

1. (currently amended) A method for ~~access to~~ accessing a medium by a multi-channel device, in which the medium comprises a transmission system having at least two channels, the method comprising:

transmitting ~~on which~~ a message including ~~to be transmitted comprises at least~~ a preamble, ~~and~~ a header (PR) ~~plus~~ and a succeeding control or data section, and ~~characterized in that~~

repeating the transmission of the preamble and header (PR) of the message ~~are repeated~~ in parallel on all ~~the~~ channels.

2. (canceled)

3. (currently amended) [[A]] The method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein the messages to be transmitted are of [[the]] a request-to-send (RTS), clear-to-send (CTS), acknowledgement (ACK) or data (DATA) type.

4. (currently amended) [[A]] The method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein the multi-channel device operates to standard IEEE 802.11, ~~i.e. 802.11e or 802.11n having~~ and a medium access control (MAC) protocol, the method further comprises repeating ~~and at least some of the items of~~ information belonging to the MAC protocol ~~are repeated~~ on all ~~the~~ channels.

5. (currently amended) [[A]] The method ~~as claimed in~~ of claim 1, ~~characterized in that~~ wherein the ~~medium~~ access to the medium takes place under standard IEEE 802.11, ~~i.e. 802.11e or 802.11n,~~ the method further comprising transmitting the RTS, CTS and ACK control frames ~~are transmitted~~ on all ~~the~~ channels, and ~~single-channel devices~~

set their setting network allocation vectors (NAVs), by single channel devices, based

on the basis of the information in the RTS/CTS data packets.

6. (currently amended) A method for access to accessing a medium by a multi-

channel device, in which the medium comprises a transmission system having at least

two channels that the multi-channel device intends to call upon for transmission in

which a message to be transmitted comprises a preamble, a header (PR) and a

succeeding control or data section wherein the preamble and header (PR) of the

message are repeated in parallel on all the channels, characterized by the steps of the

method comprising:

[[-]]   scanning by the multi-channel device of all the channels to be called

upon for transmission,

[[-]]   finding that a single one of these channels is idle or that a back-off by the

device itself is underway on this channel,

[[-]]   blocking of this channel to other devices by the multi-channel device,

[[-]]   further scanning of the other channels to be called upon and blocking or

reserving thereof on finding that the channel concerned is idle or that a backoff is

underway thereon.

7. (currently amended) [[A]] The method as claimed in of claim 6, characterized in that

the further comprising:

         blocking of the channel is performed by the multi-channel device and the

receiving device, each of which emits a reserving message.

8. (currently amended) [[A]] The method as claimed in of claim 7, characterized in that

wherein the reserving message is implemented in the form of RTS and CTS frames,

the method further comprising: that are transmitted by the following steps

[[-]]   transmission of transmitting an RTS frame on the free channel by the

multi-channel device, so that devices in the area surrounding the multi-channel device

that is transmitting will set their NAVs, and

[[-]]   ~~transmission of~~ transmitting a CTS frame on the free channel by the
receiving device, so that stations in the area surrounding the receiving station will set
their NAVs.

9. (currently amended) [[A]] The method ~~as claimed in~~ of claim 7, ~~characterized in that~~
further comprising transmitting with channel grouping, by the multi-channel device
~~carries out its transmission with channel grouping,~~ on all ~~the~~ channels that it has ~~itself~~
previously blocked.

10. (currently amended) [[A]] The method ~~as claimed in~~ of claim 6, ~~characterized in~~
~~that the~~ further comprising
        blocking ~~of~~ the channel ~~is performed~~ by starting the transmission by the
multi-channel station on the single channel, ~~in which case~~ wherein the transmission
can be made with or without an RTS-CTS mechanism.

11. (currently amended) A method for ~~access to~~ accessing a medium by a multi-
channel device, ~~which~~ the medium comprises a transmission system having at least
two channels that the multi-channel device intends to call upon for transmission, and a
message to be transmitted comprising a preamble, a header (PR) and a succeeding
control or data section, the method comprising:
        repeating the preamble and header (PR) of the message in parallel on all
channels, and
        reserving or blocking, by ~~characterized in that~~ a third device [[(]]independent
of the transmitter and receiver[[)]] ~~reserves or blocks~~ the channels in ~~the~~ a channel
group for the multi-channel device that ~~wishes~~ intends to transmit.

12. (currently amended) [[A]] The method ~~as claimed in~~ of claim 11, ~~characterized in~~
~~that~~ further comprising:
        coordinating, by the third device, ~~is responsible for coordinating medium~~
access to the medium for ~~to~~ a plurality of channels.

13. (currently amended)   [[A]] The method as claimed in of claim 11, characterized in that wherein in the event of individual channels in the channel group not becoming free simultaneously, the third device causes, alternatively,

[[(a)]]   blocking one channel or individual channels to be blocked until such time as all the channels in the channel group have become free, or

[[(b)]]   assigning a channel that has become free to be assigned immediately to the multi-channel device that wishes intends to transmit.

14. (currently amended) [[A]] The method as claimed in of claim 11, wherein the third device is a hybrid coordinator or point coordinator, characterized in that the method performing the medium access is performed under standard IEEE 802.11, i.e. 802.11e or 802.11n, and said third device is the hybrid coordinator or point coordinator.

15. (currently amended) [[A]] The method as claimed in of claim 14, characterized in that further comprising:

        transmitting, by the point coordinator or hybrid coordinator, transmits what is called beacons in parallel on all the channels.

16. (Currently amended)   Use of a The method as claimed in of claim 1, on a further comprising:

        employing transmission system employing the Standard Universal Mobile Telecommunication System (UMTS) as the transmission system.

17. (Currently amended) A multi-channel device that is intended for accessing a medium, that comprises the medium comprises a transmission system having at least two channels, the multi-channel device performing being intended to perform the method claimed in of claim 1 for the purpose of accessing the medium.

18. (Currently amended) A wireless network ~~that has~~ <u>comprising</u> a transmission system having at least two channels and ~~that has~~ at least one multi-channel device as claimed in claim 17.